LAKE JOHANNA FIRE DEPARTMENT

2011 ANNUAL FIRE REPORT



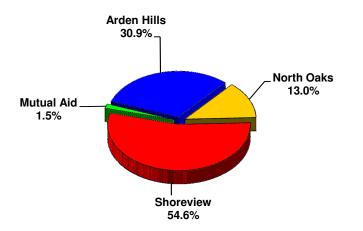
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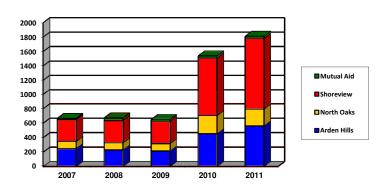
Lake Johanna Fire Department 2011 Annual Fire Report

In 2011 the Lake Johanna Fire Department responded to 1810 calls for service. Overall this represents an 18% increase in calls compared to 2010. Most of the call increase was from responding to EMS calls during our expanded shift hours. We assisted neighboring Fire Departments a total of 28 times. Automatic Mutual Aid sent us to Roseville a total of 22 times, and Vadnais Heights 2 times. We also responded to the cities of New Brighton, Circle Pines, Falcon Heights, and White Bear Lake.

CALLS PER CITY

	<u>2007</u>	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	
ARDEN HILLS: NORTH OAKS: SHOREVIEW: MUTUAL AID:	248 98 302 16	228 101 307 35	214 104 306 27	452 252 806 28	559 235 988 28	
TOTALS:	664	672	659	1538	1810	





There was a significant increase in the number of calls to each city because of the added EMS calls during Staffed hours, but the call distribution between cities changed little from the previous year. The City of Arden Hills saw calls increase by 107 in 2011which was 30.9% of the calls. North Oaks had a decrease of 17 calls in 2011 which represents 13% of the total calls. Shoreview calls for service increased by 182 calls in 2011 which works out to be 54.6% of total calls. This is an increase over last year's share of calls 52.4% of the calls.

EST	ΙΜΔΊ	FD	FIR	FIG	OSS	SFS
LOI					JUL	JLJ

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>
ARDEN HILLS	\$136,725	\$632,000	\$143,150	\$ 384,555	\$ 803,100
NORTH OAKS:	\$0	\$21,000	\$2,250	\$ 3,550	\$1,160,000
SHOREVIEW:	\$574,750	\$305,005	\$168,850	\$1,613,100	\$1,064,656
TOTALS:	\$711,475	\$960,105	\$314,250	\$2,001,205	\$3,027,756

Our 2011 estimated fire loss totaled \$3,027,756. The dollar loss averaged over the last 5 years is \$1,402,958.

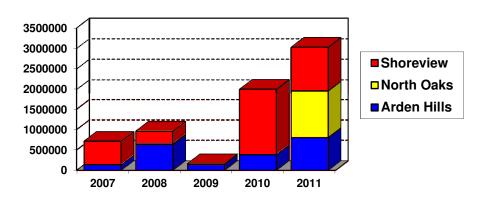
The city of North Oaks suffered the highest losses from two house fires with a combined loss of \$1,080,000.

Shoreview had three house fires for a loss of \$20,000, one Townhouse fire with a loss of \$954,137, and one apartment fire with a loss of \$64,069.

Arden Hills had one commercial building fire that had a loss of \$50,000, one Townhouse fire for a loss of \$205,600, two house fires with a combined loss of \$187,500 and one mobile home fire with a loss of \$5000.

The 2011 dollar loss was primarily from the following categories:

- Building fires- \$2,573,306 (84.9% of total losses)
- Mobile home fires- \$5,000
- Vehicle fires- \$443,300 (Car hauler fire)



In 2011, we had 13 building fires and 1 mobile home fires that accounted for about 85% of our dollar loss for the year that totaled \$2,573,306. We had shift crews working during five of the fires, the faster response time significantly helped minimize the dollar loss by containing and extinguishing the fire before greater damage could occur. During Staffed hours our average response time for an Engine on scene is 3 minutes faster than during non-staffed hours.

We responded to 14 vehicle fires in 2011 which accounted for over \$443,300 in losses for the year.

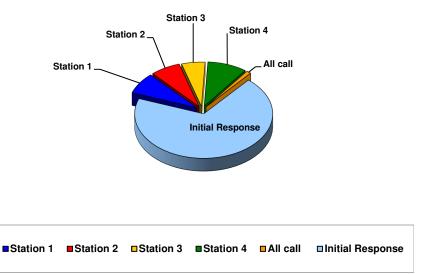
STATION RESPONSE

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>
ALL CALL:	44	56	50	24	24
STATION 1:	301	293	293	234	168
STATION 2:	325	320	310	181	153
STATION 3:	243	246	245	140	120
STATION 4:	385	368	356	266	201
INITIAL RESPONSE				1159	1505
IR – Call Backs				10	10
HAZMAT CALL:	1	2	1	0	

The chart above shows the number of times that stations were paged out as a "Station Response" as well as the number of "All Call" pages where all four stations were dispatched.

	<u>2010</u>		<u>2011</u>
Station 1-	258 Calls (16.77%)	Station 1-	192 calls (10.6%)
Station 2-	205 calls (13.32%)	Station 2-	177 calls (9.77%)
Station 3-	164 calls (10.66%)	Station 3-	144 calls (7.95%)
Station 4-	290 calls (18.85%)	Station 4-	225 calls (12.4%)

The numbers above reflect the number of times a station was paged out for callbacks which includes "All Calls". With the additional Duty Shift hours that were added in 2011 the number of station callbacks were reduced by roughly 4-6% from the previous year.



RESPONSE TIME

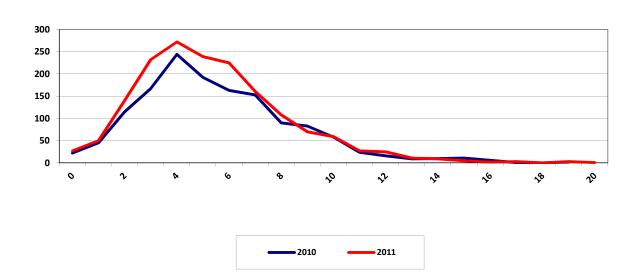
Number of Calls vs. Response Time

	<u>2009</u>	<u>2010</u>	<u>2011</u>
Average Response Time for Emergency Responses	6:38	5:36	5:11
Number of Emergency Responses	445		1296
Number of Non-Emergency Routine Responses	90		306
Average Response Time – Day Shift		5:03	4:45
Average Response Time – Evening Shift		5:13	5:16
Average Response Time – Station Callbacks		7:24	6:46

Average Emergency Response Time: (By City)

	Day Shift	Evening Shift	Call backs		
Arden Hills	5:00	5:50	7:58**		
North Oaks	7:08	6:26	9:03**		
Shoreview	4:06	4:38	7:20**		

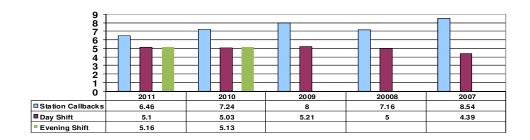
2010-2011 Year Comparison



^{**}The times listed above are for the <u>first arriving unit</u> on scene; many times this is a chief's vehicle.

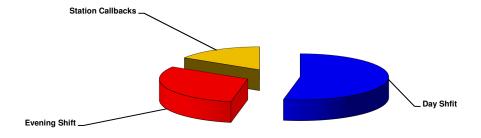
DAY SHIFT / EVENING SHIFT / STATION CALLBACKS RESPONSE TIMES

2011 Average Response Time in Minutes Day/Evening Shifts vs. Non-Shift Callbacks



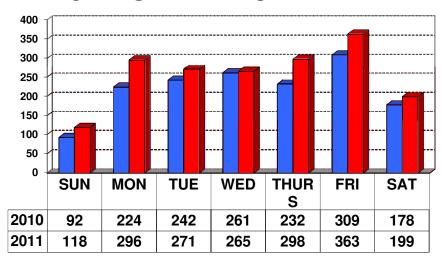
During our staffed hours the average response time was much faster than during non-staffed hours. Keep in mind that the Station Callback response time average includes the first arriving Chief who typically arrives before the 1st Engine.

2011 Incident Calls

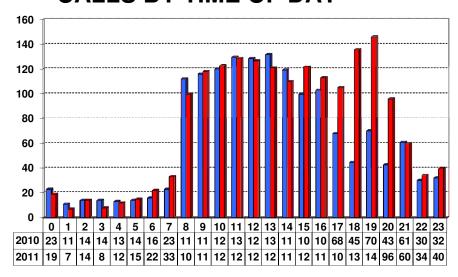


Of the 1810 calls in 2011, the Day Shift responded to 960 calls or 53% of our calls. The Evening Shift covering Friday and Saturday nights responded to 30% of the calls which was 557 calls. Station Callbacks on weekday evenings and weekends combined for 293 calls or 26.5% of the total calls.





CALLS BY TIME OF DAY



Structure Fire Response Times

Date	Address	Call Time	Chief Arrival	Engine Arrival	Duty Crew	Dollar Loss \$	Comments
2/20/2011	3833 Lexington Ave.	1754 hrs	2 min.	9 min.	no	\$50,000	Business
4/27/2011	4446 Arden View Dr.	0415 hrs	7 min.	9 min.	no	\$205,600	Townhouse
5/13/2011	1153 Bucher Ave.	1107 hrs	2 min.	5 min	yes	\$1,000	House
5/28/2011	735 Doris Ave	1542 hrs	4 min.	7 min.	no	\$10,000	Garage
6/26/2011	1369 Woodcrest	1033 hrs	7 min.	9 min.	no	\$9,000	House
8/30/2011	27 Evergreen Rd.	1644 hrs	5 min.	8 min.	yes	\$1,000,000	House
9/3/2011	5799 Prairie Ridge Dr.	1158 hrs	4 min.	11 min.	no	\$954,137	Townhouse
9/16/2011	3525 Owasso St.	1811 hrs	5 min.	3 min.	yes	\$64,069	Apartment
10/11/2011	3622 Cleveland Ave.	2143 hrs	6 min.	6 min.	no	\$187,000	House
12/17/2011	3 Thompson Ln.	0658 hrs	12 min.	12 min.	no	\$80,000	House
12/24/2011	1120 Karth Lake Rd.	2115 hrs	7 min.	7 min.	yes	\$500	House
12/24/2011	4617 Lisa Ct.	2344 hrs	6 min.	6 min.	yes	\$5,000	Mobile Home
			5.6 min. Avg.	7.6 min. Avg.			
1/5/2010	Elaine Ave.	1436 hrs	5 min.	5 min.	yes	\$374,000	House
1/23/2010	286 Floral Dr.	0507 hrs	11 min.	11 min.	no	\$600	House
2/27/2010	1000 Gramsie Rd 505 Harriet Ave.	0230 hrs 1824 hrs	9 min.	11 min. 7 min.	no	\$500 \$85,000	Business
4/5/2010 4/7/2010	936 Amble Rd.	1402 hrs	6 min. 8 min.	8 min.	no	\$85,000 \$23,000	Apartment House
5/1/2010	3262 Fernwood St	0239 hrs	12 min.	12 min.	yes no	\$269,000	House
6/25/2010	5799 Robin St.	1923 hrs	6 min.	6 min.	yes	\$490,000	House
8/18/2010	3581 Owasso St.	1853 hrs	6 min.	4 min.	no	\$550,000	Apt. Garage
10/19/2010	2012 Todd Dr.	1355 hrs	4 min.	7 min.	yes	\$10,000	Mobile home
11/5/2010	1918 Todd Dr.	2115 hrs	7 min.	7 min.	yes	\$19,500	Mobile home
11/29/2010	660 Gramsie Rd.	1909 hrs	3 min.	5 min.	no	\$66,365	House
			7 min. Avg.	7.5 min Avg.			
11/7/2009	5801 Ridge Creek Rd.	1048 hrs	4 min.	4 min.	yes	\$20,000	house
6/13/2009	4854 Kent Dr.	1105 hrs	5 min.	6 min.	no	\$80,000	Garage
6/5/2009	4611 Lisa Circle	1551 hrs	4 min.	6 min.	yes	\$70,000	Mobile Home
5/26/2009	951 Arbogast St.	1606 hrs	6 min.	4 min.	yes	\$7,000	Shed/Fence
5/16/2009	5947 Fernwood St.	2221 hrs	7 min.	11 min.	no	\$15,000	Deck/Siding
5/6/2009	1980 Banyan St.	0251 hrs 2121 hrs	8 min.	11 min.	no	\$16,000	Exposure/shed
4/5/2009	3758 Brighton Way	2121 1118	4 min. 5.4 min. Avg.	6 min. 6.8 min. Avg.	no	\$20,000	Duty Officer on
			5.4 mm. Avg.	0.0 iiiii. Avg.			
8/11/2008	937 Monterey Dr.	0012 hrs	12 min.	9 min.	no	\$50,000	townhouse
7/15/2008	3850 Victoria St.	2311 hrs	5 min.	5 min.	no	\$4,000	office
5/22/2008	1486 Dawn Cir.	1511 hrs	4 min.	4 min.	yes	\$2,000	house
5/20/2008	1589 Chatham Ave.	2234 hrs	8 min.	8 min.	no	\$2,000	house
5/4/2008	1 Red Forest way	1629 hrs	12 min.	9 min.	no	\$19,000	house
4/17/2008	1156 Amble Rd.	0058 hrs.	12 min.	11 min.	no	\$400,000	house
2/28/2008 2/15/2008	3170 New Brighton Rd.	1633 hrs. 0141 hrs.	7 min. 5 min.	5 min.	yes	\$110,000 \$150,000	house house
2/15/2008	1172 Woodcrest Ave. 2020 Todd Dr.	1243 hrs.	5 min.	9 min. <mark>5 min</mark> .	no	\$150,000 \$20,300	mobile home
2/14/2008	795 Hwy 96	0914 hrs.	4 min.	5 min.	yes yes	\$18,000	garage
1/18/2008	1968 Banyan St.	1234 hrs.	8 min.	7 min.		\$20,000	
1, 10, 2000	1000 Banyan ot.	1204 III3.	6.4 min. Avg.	7 min. Avg.	yes	Ψ20,000	mobile nome
	Avg. Engine	Non					
2008-2011	Response Avg. Engine	Staffed	8.6 minutes				
2008-2011	Response	Staffed	5.6 Minutes				

The chart above shows structure fires that occurred over the last 4 years which shows the arrival time for both a Chief Officer and the first arriving Engine. In 2011, while responding to structure fires our average response time for the first arriving Engine was 7.6 minutes, taking into account both staffed and non-staffed hours.

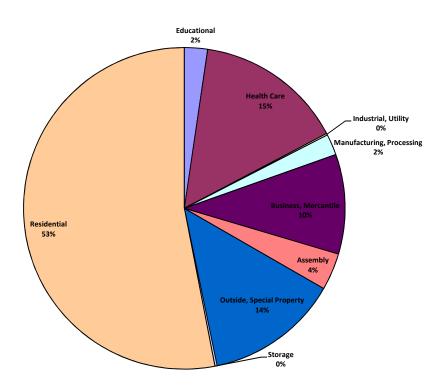
The 2011 statistics also show that during non-staffed hours, the first Engine arrived at a structure fire in an average of 9 minutes. During Staffed hours we had an Engine on scene in an average of 5.8 minutes.

INCIDENT TYPE REPORT

INCIL		III		nı		
Incident Type	Count %	of Incidents Es	st. Property Loss Es	st. Content Loss	Total Est. Loss	% of Losses
1 Fire						
Building fire (111)	18	0.99%	\$1.552.669.00	\$966,500.00	\$2,519,169.00	84.86%
Cooking fire, confined to container (113)	3	0.17%	\$0.00	\$0.00	\$0.00	0.00%
Chimney or flue fire, confined to chimney or flue (114)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Trash or rubbish fire, contained (118)	2	0.11%	\$0.00	\$0.00	\$0.00	0.00%
Fire in mobile home used as fixed residence (121)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Passenger vehicle fire (131)	13	0.72%	\$86,800.00	\$2,500.00	\$89,300.00	3.01%
Road freight or transport vehicle fire (132)	1	0.06%	\$354,000.00	\$0.00	\$354,000.00	11.92%
Water vehicle fire (134)	1	0.06%	\$5,000.00	\$0.00	\$5,000.00	0.17%
Brush or brush-and-grass mixture fire (142)	3	0.17%	\$0.00	\$0.00	\$0.00	0.00%
Grass fire (143)	7	0.39%	\$0.00	\$0.00	\$0.00	0.00%
Outside rubbish, trash or waste fire (151)	3	0.17%	\$0.00	\$0.00	\$0.00	0.00%
Special outside fire, other (160)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Outside equipment fire (162)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Odiside equipment life (102)	55					
		3.08%	\$1 ,998,469.00	\$969,000.00	\$2,967,469.00	99.96%
2 Overpressure Rupture, Explosion, Overheat(no fin	•					
Excessive heat, scorch burns with no ignition (251)	4	0.22%	\$150.00	\$1,000.00	\$1,150.00	0.04%
	4	0.22%	\$150.00	\$1,000.00	\$1,150.00	0.04%
3 Rescue & Emergency Medical Service Incident						
Medical assist, assist EMS crew (311)	1080	59.67%	\$0.00	\$0.00	\$0.00	0.00%
EMS call, excluding vehicle accident with injury (321)	20	1.10%	\$0.00	\$0.00	\$0.00	0.00%
Motor vehicle accident with injuries (322)	65	3.59%	\$0.00	\$0.00	\$0.00	0.00%
, , ,						
Motor vehicle/pedestrian accident (MV Ped) (323)	5	0.28%	\$0.00	\$0.00	\$0.00	0.00%
Motor vehicle accident with no injuries. (324)	6	0.33%	\$0.00	\$0.00	\$0.00	0.00%
Search for person on land (341)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Extrication of victim(s) from vehicle (352)	10	0.55%	\$0.00	\$0.00	\$0.00	0.00%
Removal of victim(s) from stalled elevator (353)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Water & ice-related rescue, other (360)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Ice rescue (362)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
100 100000 (002)	1190	65.76%	\$0.00	\$0.00	\$0.00	0.00%
A Hannedova Condition (No Fire)	1130	03.70%	\$0.00	\$0.00	\$0.00	0.00%
4 Hazardous Condition (No Fire)						
Gasoline or other flammable liquid spill (411)	3	0.17%	\$0.00	\$0.00	\$0.00	0.00%
Gas leak (natural gas or LPG) (412)	31	1.71%	\$0.00	\$0.00	\$0.00	0.00%
Carbon monoxide incident (424)	6	0.33%	\$0.00	\$0.00	\$0.00	0.00%
Heat from short circuit (wiring), defective/worn (441)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Overheated motor (442)	2	0.11%	\$0.00	\$0.00	\$0.00	0.00%
Power line down (444)	16	0.88%	\$0.00	\$0.00	\$0.00	0.00%
Arcing, shorted electrical equipment (445)	9	0.50%	\$0.00	\$0.00	\$0.00	0.00%
	1					
Building or structure weakened or collapsed (461)		0.06%	\$0.00	\$0.00	\$0.00	0.00%
Vehicle accident, general cleanup (463)	16	0.88%	\$0.00	\$0.00	\$0.00	0.00%
Attempted burning, illegal action, other (480)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
	66	3.67%	\$0.00	\$0.00	\$0.00	0.00%
6 Good Intent Call						
Good intent call, other (600)	30	1.66%	\$0.00	\$0.00	\$0.00	0.00%
Dispatched and cancelled en route (611)	140	7.73%	\$0.00	\$0.00	\$0.00	0.00%
Wrong location (621)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Authorized controlled burning (631)	2	0.11%	\$0.00	\$0.00	\$0.00	0.00%
Smoke scare, odor of smoke (651)	22	1.22%	\$0.00	\$0.00	\$0.00	0.00%
Steam, vapor, fog or dust thought to be smoke (652)	4				\$0.00	
		0.22%	\$0.00	\$0.00		0.00%
HazMat release investigation w/no HazMat (671)	11	0.61%	\$0.00	\$0.00	\$0.00	0.00%
	210	11.61%	\$0.00	\$0.00	\$0.00	0.00%
7 False Alarm & False Call						
Malicious, mischievous false call, other (710)	2	0.11%	\$0.00	\$0.00	\$0.00	0.00%
Local alarm system, malicious false alarm (715)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Sprinkler activation due to malfunction (731)	4	0.22%	\$0.00	\$0.00	\$0.00	0.00%
Smoke detector activation due to malfunction (733)	6	0.33%	\$0.00	\$0.00	\$0.00	0.00%
Alarm system sounded due to malfunction (735)	20	1.10%	\$0.00	\$0.00	\$0.00	0.00%
					\$0.00	0.00%
CO detector activation due to malfunction (736)	6	0.33%	\$0.00	\$0.00		
Sprinkler activation, no fire - unintentional (741)	4	0.22%	\$0.00	\$0.00	\$0.00	0.00%
Smoke detector activation, no fire - unintentional (743)	39	2.15%	\$0.00	\$0.00	\$0.00	0.00%
Alarm system activation, no fire - unintentional (745)	85	4.70%	\$0.00	\$0.00	\$0.00	0.00%
Carbon monoxide detector activation, no CO (746)	16	0.88%	\$0.00	\$0.00	\$0.00	0.00%
	183	10.10%	\$0.00	\$0.00	\$0.00	0.00%
8 Severe Weather & Natural Disaster				*	¥	
Flood assessment (812)	12	0.66%	\$0.00	\$0.00	\$0.00	0.00%
	3		\$0.00	\$0.00	\$0.00	0.00%
Lightning strike (no fire) (814)		0.17%				
	15	0.83%	\$0.00	\$0.00	\$0.00	0.00%
9 Special Incident Type						
Special type of incident, other (900)	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
	1	0.06%	\$0.00	\$0.00	\$0.00	0.00%
Total Incident Count:	1810			Total Est. Loss:	\$2,968,619.00	

Response to Property Types

General Use	JAN 2011	FEB 2011	MAR 2011	APR 2011	MAY 2011	JUN 2011	JUL 2011	AUG 2011	SEPT 2011	OCT 2011	NOV 2011	DEC 2011	Total
*NA	1	0	1	0	0	0	1	1	0	0	0	1	5
Assembly	7	1	7	4	3	9	5	5	5	7	5	9	67
Educational	2	4	2	7	1	3	2	3	7	6	4	1	42
Health Care, Detention & Correction	17	14	22	25	26	20	21	29	23	31	24	18	270
Industrial, Utility, Defense, Agriculture, Mining	0	0	0	0	1	1	0	0	0	0	0	1	3
Manufacturing, Processing	2	1	1	2	5	4	2	7	2	8	3	1	38
Mercantile, Business	13	8	12	22	11	21	17	18	13	15	14	17	181
Outside or Special Property	19	13	8	14	23	25	17	37	24	22	21	19	242
Property Use, other	0	0	0	0	0	0	1	0	0	0	0	0	1
Residential	71	57	75	55	76	65	110	88	78	99	99	84	957
Storage	1	0	0	0	1	0	0	1	0	0	1	0	4
Grand Total	133	98	128	129	147	148	176	189	152	188	171	151	1810



2011 PUBLIC FIRE EDUCATION

	Day Crew	STA 1	STA 2	STA 3	STA 4	TOTALS
JANUARY	0	0	0	0	2	2
FEBRUARY	0	0	1	1	0	2
MARCH	2	0	0	0	1	3
APRIL	8	0	0	0	0	8
MAY	6	0	0	0	1	7
JUNE	10	0	1	0	0	11
JULY	11	1	1	0	1	14
AUGUST	8	0	1	1	0	10
SEPTEMBER	7	2	2	0	2	13
OCTOBER	18	1	1	1	0	21
NOVEMBER	11	0	0	1	1	13
DECEMBER	1	1	1	1	1	5
TOTALS	82	5	8	5	9	109

2011 MONTHLY INSPECTION REPORT

	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Plan Review	0	0	5	0	5	1	0	0	1	2	1	1	16
Sprinkler Plan Review	2	4	3	2	6	2	3	4	4	10	3	3	46
Alarm Plan Review	1	0	1	0	2	2	1	3	5	3	1	2	21
Daycare/Group Home	1	0	0	0	0	0	1	1	0	1	0	0	4
Commercial Inspection	13	10	16	18	48	15	65	44	11	33	4	10	287
Re-Inspections	19	8	19	17	13	15	3	11	30	12	7	22	176
Cert of Occupancy Inspection	0	2	0	1	2	0	0	0	1	0	0	0	6
Fire Code Complaint Inspection	1	0	0	0	0	0	0	1	0	0	0	0	2
Misc Inspection	4	3	1	7	2	7	4	3	0	1	0	2	34
Sprinkler/Fire Protection Inspection	5	6	6	6	0	6	12	12	17	9	10	12	101
Fire Alarm Inspection	1	0	2	6	2	1	0	0	5	1	1	8	27
School Inspection	2	1	1	2	3	0	0	2	0	0	0	2	13
Rental Inspection	0	25	1	0	0	1	0	0	0	0	0	0	27
Construction/Site Inspection	0	3	2	1	0	0	4	0	1	1	2	1	15
Temporary Membrane	0	0	0	3	0	2	17	0	0	0	0	0	22
Residential Inspection	0	0	0	0	0	1	0	2	2	0	0	0	5
Fireworks	0	0	0	0	2	2	1	1	0	0	0	0	6
Business Licensing Inspection	0	0	0	0	0	0	0	0	0	0	20	0	20
Monthly Totals	49	62	57	63	85	55	111	84	77	73	49	63	828
Fire Inspector	6	9	0	6	0	8	7	3	11	6	17	11	84

